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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,950	09/08/2006	Helen Francis-Lang	05-967-D5	5893
	7590 11/26/200 BOEHNEN HULBER	8 RT & BERGHOFF LLP	EXAMINER	
300 S. WACKER DRIVE			YAO, LEI	
32ND FLOOR CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			1642	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/567,950	FRANCIS-LANG ET AL.
Office Action Summary	Examiner	Art Unit
	LEI YAO	1642
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING IT Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron the, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 10 and 2a) This action is FINAL . 2b) The 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-25 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-25 are subject to restriction and/or	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examir 11.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate

Art Unit: 1642

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-12, 16-19, drawn to a method of <u>identifying a candidate</u> <u>beta catenin</u> pathway modulating agent in a system comprising <u>PRKC polypeptide</u> and test the compound in a mouse model.

Group 2, claim(s) 1-12, 16-19, drawn to a method of <u>identifying a candidate</u> <u>beta catenin</u> pathway modulating agent in a system comprising <u>PRKC nucleic acids</u> and test the compound in a mouse model.

Group 3, claim(s) 13-15, 20-22, drawn to a <u>method of modulating a beta catenin</u> pathway of a cell comprising contacting a cell defective in beta catenin function and administering the modulator in an animal with defect in beta catenin function and modulator binds to PRKC polypeptide.

Group 4, claim(s) 20-22, drawn to a <u>method of modulating a beta catenin</u> pathway of a cell comprising contacting a cell defective in beta catenin function and administering the modulator in an animal with defect in beta catenin function and modulator binds to PRKC nucleic acid.

Group 5, claim(s) 23-25, drawn to a method of <u>diagnosing a disease</u> in a patient comprising a cancer comprising detecting the PRKC expression.

A national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept. When claims to different categories are present in the application, the claims will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories: (1) A product and a process specially adapted for the manufacture of said product; or (2) A product and a process of use of said product; or (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or (4) A process and an apparatus or means specifically designed for carrying out the said process; or (5) A product, a process specially adapted for the

Art Unit: 1642

manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process. If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in the claims of the application will be considered as the main invention in the claims, see PCT article 17(3) (a) and 1.476 (c), 37 C.F.R. 1.475(b) and (d). Group I will be the main invention. After that, all other products and methods will be broken out as separate groups (see 37 CFR 1.475(d).)

According to PCT Rule 13.2, unity of invention exists only when the shared same or corresponding technical feature is a contribution over the prior art. The inventions listed as group 1-4 do not related to s single general invention concept because they lack the same or corresponding special technical feature. The technical feature of group 1 is drawn to a method of identifying a modulator for beta catenin pathway comprising the assay system comprising a PRKC polypeptide which is shown by Ilan et al., (JBC, col 275, page 21435-43, 2000). Ilan et al., teach that PKC-derived PECAM-1 protein modulates beta catenin pathway. Since the invention Group 1 does not make a contribution over the prior art and since the technical feature of the Group I is not a special technical feature, the unity of inventions (Group 1-4) is lacking.

In addition, according to PCT rule 13.2, unity of invention exists only when there is a shared same or corresponding special technical feature among the claimed inventions. Group 5 is directed to a method of diagnosing a disease comprising a cancer which has the special technical feature of patient with a cancer, not shared by other groups.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Election of Species

This application contains claims directed to more than one species of the generic invention in the groups above. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

A. Candidate beta catenin modulating agent:

small molecule, antibody, nucleic acid Antisense oligomer, nucleic acid

B. Assay system:

PMO.

Apoptosis, cell proliferation, angiogenesis, hypoxic induction.

C. cancer:

cancer listed in table I of the specification (claim 25).

If Applicant elects any invention from group 1-4, Applicant is required to elect a single modulator from A, and a single assay system from B.

If Applicant elects any invention from group 5, Applicant is required to elect a single cancer condition from C. table I of the specification.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: each species has

Art Unit: 1642

special structure and function. For example, the beta catenin pathway may be modulated with antibody modulator, not small molecule.

The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lei Yao, Ph.D. whose telephone number is 571-272-3112. The examiner can normally be reached on 8am-6.00pm Monday-Thursday.

Any inquiry of a general nature, matching or file papers or relating to the status of this application or proceeding should be directed to Kim Downing for Art Unit 1642 whose telephone number is 571-272-0521

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Lei Yao, Ph.D./ Examiner, Art Unit 1642 Page 5

/Larry R. Helms/ Supervisory Patent Examiner, Art Unit 1643